

U.S. ATLAS M&O Estimate WBS Profile Estimates

Funding Source: All

Funding Type: Program

4/2/2002 3:43:35 PM

Institutions: All

Labor/Material: Both

WBS Number	Description	FY 03 (k\$)	FY 04 (k\$)	FY 05 (k\$)	FY 06 (k\$)	FY 07 (k\$)	FY 08 (k\$)	FY 09 (k\$)	FY 10 (k\$)	FY 11 (k\$)	FY 12 (k\$)
3	U.S. ATLAS M&O Estimate	809	1823	2495	2124	1657	610	595	595	595	595
3.5	ATLAS Endcap Muon M&O	809	1823	2495	2124	1657	610	595	595	595	595
3.5.1	MDT Operations and Maintenance	519	1208	1701	989	981	277	277	277	277	277
3.5.1.1	MDT Pre-operations, Operations an	519	1208	1701	982	974	270	270	270	270	270
3.5.1.1.1	MDT Pre-Operations (Pre-Beam)	519	1208	1701	982	823	0	0	0	0	0
3.5.1.1.2	MDT Operations (Beam on)	0	0	0	0	89	168	168	168	168	168
3.5.1.1.3	MDT Maintenance (Beam off)	0	0	0	0	61	102	102	102	102	102
3.5.1.2	MDT Spares - Mechanical and Elect	0	0	0	7	7	7	7	7	7	7
3.5.1.2.1	MDT Mechanical Spares	0	0	0	3	3	3	3	3	3	3
3.5.1.2.2	MDT Electronics Spares	0	0	0	4	4	4	4	4	4	4
3.5.2	CSC Operations and Maintenance	80	181	197	346	329	64	49	49	49	49
3.5.2.1	CSC Pre-operations, Operations an	80	181	197	346	329	58	43	43	43	43
3.5.2.1.1	CSC Pre-Operation (Pre-Bream)	80	181	197	346	253	0	0	0	0	0
3.5.2.1.2	CSC Operations (Beam On)	0	0	0	0	76	45	31	31	31	31
3.5.2.1.3	CSC Maintenance (Beam Off)	0	0	0	0	0	13	13	13	13	13
3.5.2.2	CSC Spares - Electrical and Mecha	0	0	0	0	0	6	6	6	6	6
3.5.2.2.1	CSC Mechanical Spares	0	0	0	0	0	3	3	3	3	3
3.5.2.2.2	CSC Electrical Spares	0	0	0	0	0	3	3	3	3	3

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3.5.3	Alignment System	29	116	248	233	62	46	46	46	46	46
3.5.3.1	Alignment System Pre-operations	29	116	248	233	62	0	0	0	0	0
3.5.3.1.1	Pre-Ops Staging Area for Alignm	0	40	146	70	0	0	0	0	0	0
3.5.3.1.2	Pre-operations of Alignment Part	29	36	0	0	0	0	0	0	0	0
3.5.3.1.3	Pre-operations of Alignment Part	0	40	40	0	0	0	0	0	0	0
3.5.3.1.4	Pre-operations of Alignment - Ph	0	0	62	163	62	0	0	0	0	0
3.5.3.2	Alignment System Operation (Bea	0	0	0	0	0	9	9	9	9	9
3.5.3.2.1	Brandeis	0	0	0	0	0	9	9	9	9	9
3.5.3.3	Alignment System Maintenance (Be	0	0	0	0	0	37	37	37	37	37
3.5.3.3.1	Alignment Bars	0	0	0	0	0	9	9	9	9	9
3.5.3.3.2	Proximity Monitors	0	0	0	0	0	8	8	8	8	8
3.5.3.3.3	Multi-Point System (BCAM)	0	0	0	0	0	12	12	12	12	12
3.5.3.3.4	In-Plane System	0	0	0	0	0	8	8	8	8	8
3.5.4	Muon Endcap Common Costs	128	266	332	506	240	166	166	166	166	166
3.5.4.1	Pre-Operation Engineering of Endc	92	167	200	189	0	0	0	0	0	0
3.5.4.1.1	Pre-operation Engineering for Sm	44	44	44	0	0	0	0	0	0	0
3.5.4.1.2	Pre-operation Engineering for Big	48	75	75	75	0	0	0	0	0	0
3.5.4.1.3	Pre-operation Engineering for Ali	0	48	80	114	0	0	0	0	0	0
3.5.4.2	Muon Endcap Common Cost Opera	36	36	69	236	240	166	166	166	166	166
3.5.4.2.1	Muon Endcap Common Cost Ope	36	36	69	236	240	166	166	166	166	166
3.5.4.3	Access to Muon Endcap System	0	63	63	81	0	0	0	0	0	0
3.5.4.3.1	Access to Small Wheel	0	32	32	28	0	0	0	0	0	0
3.5.4.3.2	Access to Big Wheel (Beam Off)	0	32	32	53	0	0	0	0	0	0
3.5.5	Monitoring & Calibration	52	52	18	50	45	57	57	57	57	57
3.5.5.1	Pre-operations of Monitoring and	52	52	18	50	41	0	0	0	0	0

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3.5.5.1.1	Pre-operations of MDT M&C Syst	0	0	18	18	0	0	0	0	0	0
3.5.5.1.2	Pre-operations of CSC System M	0	0	0	17	17	0	0	0	0	0
3.5.5.1.3	Pre-operations of Alignment M&C	0	0	0	0	8	0	0	0	0	0
3.5.5.1.4	Pre-operations of Environmental	0	0	0	16	16	0	0	0	0	0
3.5.5.1.5	Muon Test Beams	52	52	0	0	0	0	0	0	0	0
3.5.5.2	Operation of M&C Systems (Beam	0	0	0	0	0	25	25	25	25	25
3.5.5.2.1	Operation of MDT M&C Systems	0	0	0	0	0	8	8	8	8	8
3.5.5.2.2	Operation of CSC M&C (Beam On	0	0	0	0	0	9	9	9	9	9
3.5.5.2.3	Operation of Alignment System M	0	0	0	0	0	8	8	8	8	8
3.5.5.3	Maintenance of M&C (Beam Off)	0	0	0	0	4	33	32	32	32	32
3.5.5.3.1	Maintenance of MDT M&C (Beam	0	0	0	0	0	8	8	8	8	8
3.5.5.3.2	Maintenance CSC System M&C (0	0	0	0	0	9	9	9	9	9
3.5.5.3.3	Maintenance of Alignment Syste	0	0	0	0	4	8	8	8	8	8
3.5.5.3.5	Maintenance of Sensor System M	0	0	0	0	0	8	8	8	8	8